

## PATENT COOPERATION TREATY

10/527563

PCT

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

CHAS.HUDE AS  
33, H.C. Andersens Boulevard  
1780 Copenhagen  
DANEMARK

Sagetype A	J.nr. 7277	Ing. EL
29 DEC. 2004		
AS 400 gc	Til hvem EL	

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing  
(day/month/year)

27.12.2004

Applicant's or agent's file reference  
77517 EL/ge

## IMPORTANT NOTIFICATION

International application No.  
PCT/DK 03/00589International filing date (day/month/year)  
11.09.2003Priority date (day/month/year)  
11.09.2002Applicant  
BACTOFORCE AS et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

## 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international  
preliminary examining authority:

European Patent Office  
D-80298 Munich  
Tel. +49 89 2399 - 0 Tx: 523656 epmu d  
Fax: +49 89 2399 - 4465

Authorized Officer

Püschel, S

Tel +49 89 2399-5812



PCT

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT  
(PCT Article 36 and Rule 70)



10/527563

Applicant's or agent's file reference 77517 EL/ge	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/DK 03/00589	International filing date (day/month/year) 11.09.2003	Priority date (day/month/year) 11.09.2002
International Patent Classification (IPC) or both national classification and IPC G01M3/00		
Applicant BACTOFORCE AS et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.  
  
☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  
  
 These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  02.04.2004	Date of completion of this report  27.12.2004
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer  Köck, A  Telephone No. +49 89 2399-2493  

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/DK 03/00589**

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-3 as originally filed

**Claims, Numbers**

1-2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).  
☐ the language of publication of the international application (under Rule 48.3(b)).  
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority in written form.  
☐ furnished subsequently to this Authority in computer readable form.  
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:  
☐ the claims, Nos.:  
☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

**BEST AVAILABLE COPY**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/DK 03/00589**

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes: Claims	1-2
	No: Claims	
Inventive step (IS)	Yes: Claims	1-2
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-2
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**BEST AVAILABLE COPY**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/DK 03/00589

V. Reasoned statement under Article 35(2) PCT

1. The following documents have been considered for the purposes of this report:

D1 = WO01/42756

D2 = US-A-5 416 323

2. Article 33(2) (novelty)

A method of detecting leakage in a heat exchanger is known from D1, whereby helium is introduced on a first side of the heat exchanger and the presence of said helium is detected on a second side of the heat exchanger. In the present application, the same method is essentially performed, in addition to reversing the pressure of first and second side and performing the same method with a second tracer introduced into the second side of the heat exchanger.

The present application thus satisfies the criterion set forth in Article 33(2) PCT because the subject-matter of claims 1 and 2 is new in respect of prior art as defined in the regulations (Rule 64(1)-(3) PCT).

3. Article 33(3) PCT (inventive step)

The problem to be solved by the present invention is to improve the detection accuracy of the leakage detecting method. This is achieved by applying the same method in the reverse direction when the first tracer is not detected by applying a second tracer on the second side and measuring its presence on the first side. D2 essentially discloses a similar method to D1 in which one tracer is introduced on one side and detected on the other side.

4. The documents D1 and D2 have not been identified in the description nor has the relevant background art disclosed therein been discussed. The requirements of Rule 5.1(a)(ii) PCT are, thus, not fulfilled.

**BEST AVAILABLE COPY**